

### REMARKS / ARGUMENTS

Reconsideration of this patent application is respectfully requested in view of the foregoing amendments, and the following remarks. Claims 8, 10, 12, 13, 14, 15 and 16 are in the application. Claims 1-7, 9 and 11 have been canceled, claim 8 has been amended, and new claims 12-16 have been added. No new matter has been introduced. We request that the examiner acknowledge the references cited in the Information Disclosure Statement of May 22, 2007.

Claim 8 was amended to include the elements of claim 7. New independent claim 12 is based on canceled claim 7. The Examiner indicated that claim 7 included allowable subject matter and would be allowable if written in independent form. Claim 12 includes the limitation of canceled claim 7 that the errors of an image reproduction system relate to color channels, the first step of the method of canceled claim 1 not in the preamble, and the process step found in canceled claim 7. Support for this allowable subject matter is found in the last paragraph of page 8 of the specification, particularly in lines 28 and 29.

Claim 13 is new, dependent on claim 12, and adds additional steps to the process of claim 12. Claim 14 is dependent on claim 12 and adds a different additional step to the process of claim 12. The additional steps in claim 13 are based on the second and third non-preamble steps of the method of canceled claim 1. The additional step in claim 14 is based on the fourth non-preamble step of the method of canceled claim 1. Claim 15 is based on the canceled claim 4. Claim 16 is based on the canceled claim 5.

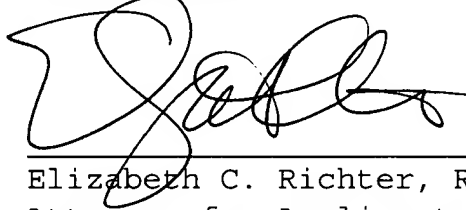
Claims 8 and 10 were rejected under 35 U.S.C. 103(a) as being unpatentable over Goto USPN 5,774,230 in view of the publication "An Artificial Neural Network for Real-Time Image Restoration" Krell et al. By incorporating the allowable subject matter found in canceled claim 7, with the addition of the element, image inputting means feeding  $N^2$  neuronal nets for  $N$  color channels, claim 8 has been brought into allowable form. The element of *neuronal net* was amended to plural form neuronal nets to account for claim 8 now including subject matter from canceled claim 7. Support for these additions from canceled claim 7 is found in the last paragraph of pg. 8 of the specification, particularly in lines 28 and 29. Claim 8 has been

... further amended for greater clarification. The element of the neuronal nets has been further amended to clarify that its outputs are added. Lines 1 through 3 of page 9 of the specification support this amendment. Lines 1 through 3 of page 9 of the specification also support the removal of the word neurons to leave the output alone of the neuronal nets to be added. Line 23 of page 9 of the specification supports the removal of the phrase *the picture elements* to leave the inputs only being described by an image reproduction device. Lines 20 and 21 of page 5 of the specification support the addition of the phrase that connects to inputs of the neuronal nets, the addition of which better clarifies the relation of the storage element to the rest of the invention. Other amendments to claim 8 serve only to make grammatical or minor clarifications to the claim

Claim 10 was not amended, but is dependent on claim 8 and thus incorporates the element in amended claim 8 not found in the previous version of claim 8.

Because all of the claims are now based on the allowable subject matter from the canceled claim 7, allowance of said claims is respectfully requested.

Respectfully submitted,  
Bernd MICHAELIS ET AL



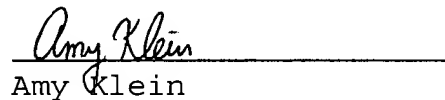
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I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 19, 2007.

  
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